

WHAT IS CLAIMED IS:

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1. A thermoplastic felt structure for an automobile interior substrate, comprising a pair of mat units, each mat unit having a felt layer which is made by a mixture of a jute fiber and a PP fiber mixed in the weight ratio of about 5 to 5 ~ 6 to 4 and a PP foaming fiber adhered to one side of the felt layer, said mat units being coupled each other on the other sides of the felt layers.

2. The thermoplastic felt structure according to claim 1, wherein the jute fiber has about 40 ~ 120 μ m diameter and about 45 ~ 80mm length.

3. The thermoplastic felt structure according to claim 1, wherein the PP fiber has about 6 ~ 15denier diameter and about 45 ~ 80mm length.

4. The thermoplastic felt structure according to claim 1, wherein the PP fiber is comprised of a staple fiber having a crimp in order to improve the needle-punching efficiency.

5. The thermoplastic felt structure according to claim 1, wherein a weight per area of the PP foaming resin is about 50 ~ 100g/m².